

WEST

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L2: Entry 4 of 6

File: DWPI

May 22, 2001

DERWENT-ACC-NO: 2000-224122

DERWENT-WEEK: 200132

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TITLE: Control of weeds in tolerant maize crops uses herbicidal combination containing glufosinate, glyphosate, imidazolinone, azole, cyclohexanedione or heteroaryloxyphenoxypropionic acid herbicide

INVENTOR: BIERINGER, H; HACKER, E ; WILLMS, L

PATENT-ASSIGNEE: AVENTIS CROPS SCIENCE GMBH (AVET), HOECHST-SCHERING AGREVO GMBH (AGRE)

PRIORITY-DATA: 1999DE-1019993 (April 30, 1999), 1998DE-1036737 (August 13, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 9913638 A	May 22, 2001	N/A	000	A01N057/20
WO 200008936 A1	February 24, 2000	G	069	A01N057/20
AU 9957321 A	March 6, 2000	N/A	000	A01N057/20
DE 19919993 A1	November 2, 2000	N/A	000	A01N057/20

DESIGNATED-STATES: AE AL AM AU AZ BA BB BG BR BY CA CN CR CU CZ DM EE GD GE HR HU ID IL IN IS JP KG KP KR KZ LC LK LR LT LV MD MG MK MN MX NO NZ PL RO RU SG SI SK SL TJ TM TR TT UA UZ VN YU ZA AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BR 9913638A	August 10, 1999	1999BR-0013638	N/A
BR 9913638A	August 10, 1999	1999WO-EP05796	N/A
BR 9913638A		WO 200008936	Based on
WO 200008936A1	August 10, 1999	1999WO-EP05796	N/A
AU 9957321A	August 10, 1999	1999AU-0057321	N/A
AU 9957321A		WO 200008936	Based on
DE 19919993A1	April 30, 1999	1999DE-1019993	N/A

INT-CL (IPC): A01N 43/50; A01N 57/20; A01N 57/20; A01N 47/36; A01N 47/06; A01N 43/90; A01N 43/824; A01N 43/80; A01N 43/70; A01N 43/50; A01N 43/40; A01N 43/10; A01N 41/10; A01N 39/04; A01N 37/40; A01N 37/22; A01N 33/18

RELATED-ACC-NO: 2000-206893

ABSTRACTED-PUB-NO: WO 200008936A

BASIC-ABSTRACT:

NOVELTY - Weeds in tolerant maize crops are controlled by the application of a herbicidal combination comprising a glufosinate (I) or its esters, salts or phosphinothricin derivatives, glyphosate (II) or its ester or salt, imidazolinone, protoporphyrinogen oxidase-inhibiting azole, cyclohexanedione or heteroaryloxyphenoxypropionic acid herbicide and selective or non-selective

herbicides.

DETAILED DESCRIPTION - Control of weeds in tolerant maize crops comprises the application of a herbicidal combination comprising:

(A) a glufosinate of formula (I) or its esters, salts or phosphinothricin derivatives, glyphosate of formula (II) or its esters and salts, imidazolinone, protoporphyrinogen oxidase-inhibiting azole, cyclohexanedione or heteroaryloxyphenoxypuionic acid herbicide; and

(B) herbicide(s) which are: (a) structurally different from herbicides (A); (b) active against monocot and dicot weeds via foliage or soil; (c) active selectively against dicots in maize; and/or (d) active selectively predominantly against dicot weeds via foliage or soil; and

(C) optionally a safener.

Z = OH, -NHCH(CH₃)CONHCH(CH₃)COOH or -NHCH(CH₃)CONHCH(CH₂CH(CH₃)₂)COOH.

INDEPENDENT CLAIMS are also included for:

(i) the use of the combination for regulating the growth of maize plants or for influencing the yield or components of maize; and

(ii) a herbicidal composition containing (A) and cyanazine, acetochlor, alachlor, terbutryn, benoxacor, fluthiamide, sulcotrione, mesotrione, pentoxamid, pendimethalin, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam, florasulam, isoxachlortole, bromoxynil, clopyralid, carfentrazone, Lab271272, halosulfuron, diflufenzopyr and/or sulfosulfuron as (B) and optionally adjuvants and formulation aids.

USE - The method is used especially for the control of weeds, e.g. *Digitaria sanguinalis*, *Panicum dichotomiflorum*, *Euphorbia heterophylla*, *Phagopyron esculentum*, *Lolium multiflorum*, *Avena fatua* and *Sorghum halepense* in tolerant or resistant mutant or transgenic maize crops.

ADVANTAGE - Combination of (A) and (B) has a synergistic effect. This confers economical and economical benefits, including the use of lower doses of (A) and (B), broader efficacy, extension of the treatment period and/or reduction in the number of applications required.

ABSTRACTED-PUB-NO: WO 200008936A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: C01

CPI-CODES: C05-B01P; C06-D08; C06-H; C07-D09; C07-D13; C07-H; C10-D03; C10-F02; C14-V02B;

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 20010004628 A1

L2: Entry 1 of 6

File: PGPB

Jun 21, 2001

PGPUB-DOCUMENT-NUMBER: 20010004628
PGPUB-FILING-TYPE: new-utility
DOCUMENT-IDENTIFIER: US 20010004628 A1

TITLE: Herbicidal composition

PUBLICATION-DATE: June 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ruegg, Willy	Gipf-Oberfrick		CH	

US-CL-CURRENT: 504/129

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6187920 B1

L2: Entry 2 of 6

File: USPT

Feb 13, 2001

US-PAT-NO: 6187920
DOCUMENT-IDENTIFIER: US 6187920 B1

TITLE: Pyridazinone derivatives

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Komori, Takashi	Toyonaka	N/A	N/A	JPX

US-CL-CURRENT: 544/239; 504/238, 544/237, 544/238, 560/168

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6114286 A

L2: Entry 3 of 6

File: USPT

Sep 5, 2000

US-PAT-NO: 6114286
DOCUMENT-IDENTIFIER: US 6114286 A

TITLE: Pyrimidinone derivatives

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Minoru	Kameoka	N/A	N/A	JPX

US-CL-CURRENT: 504/240; 504/241, 544/281, 544/282

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 4. Document ID: BR 9913638 A, WO 200008936 A1, AU 9957321 A, DE 19919993 A1

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AU 9957321 A	March 6, 2000	N/A	000	A01N057/20
DE 19919993 A1	November 2, 2000	N/A	000	A01N057/20

INT-CL (IPC): A01N 43/50; A01N 57/20; A01N 57/20; A01N 47/36; A01N 47/06; A01N 43/90; A01N 43/824; A01N 43/80; A01N 43/70; A01N 43/50; A01N 43/40; A01N 43/10; A01N 41/10; A01N 39/04; A01N 37/40; A01N 37/22; A01N 33/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 5. Document ID: JP 2000053509 A, FR 2781983 A1

L2: Entry 5 of 6

File: DWPI

Feb 22, 2000

DERWENT-ACC-NO: 2000-208780
DERWENT-WEEK: 200020
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TITLE: Synergistic herbicidal composition contains 2-chloro-4-fluoro-5-(4-methyl--5-trifluoromethyl pyridazin-3-on-2-yl) phenoxy acetic ester and sulcotrione, mesotrione, isoxaflutole or isoxachlortole

INVENTOR: MITO, N

PRIORITY-DATA: 1998JP-0221585 (August 5, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000053509 A	February 22, 2000	N/A	008	A01N043/54
FR 2781983 A1	February 11, 2000	N/A	020	A01N043/58

INT-CL (IPC): A01N 35/06; A01N 43/54; A01N 43/58; A01N 43/76; A01N 43/80; A01N 41/10; A01N 43/58; A01N 43/76; A01N 43/80

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: BR 9912823 A, WO 200003592 A2, AU 9952812 A, DE 19928453 A1, EP 1096854 A2

L2: Entry 6 of 6

File: DWPI

May 2, 2001

DERWENT-ACC-NO: 2000-182300
DERWENT-WEEK: 200129
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TITLE: Synergistic selective herbicidal composition, especially for use in rice, containing sulfuron and e.g. clethodim, bentazone or nicosulfuron

INVENTOR: AULER, T; BIERINGER, H ; HACKER, E ; MELENDEZ, A

PRIORITY-DATA: 1999DE-1028453 (June 24, 1999), 1998DE-1032017 (July 16, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 9912823 A	May 2, 2001	N/A	000	A01N047/36
WO 200003592 A2	January 27, 2000	G	051	A01N000/00
AU 9952812 A	February 7, 2000	N/A	000	A01N000/00
DE 19928453 A1	December 28, 2000	N/A	000	A01N047/36
EP 1096854 A2	May 9, 2001	G	000	A01N047/36

INT-CL (IPC): A01N 0/00; A01N 47/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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